ELECTRONIC SYSTEMS, INC.
166 South Carter, Genoa City, WI 53128

Company: Whirlpool Corporation
Model Tested: XPWG3
DLS Project: 7037

FCC Code of Federal Regulations 47 Part 1.1307(b) (1)

RF Exposure Statement of Compliance

THE FOLLOWING **MEETS** THE ABOVE TEST SPECIFICATION

Formal Name:	Wifi Gen3
Kind of Equipment:	802.11b/g/n Wi-Fi appliance module
Frequency Range:	2412-2462 MHz
Test Configuration:	DC powered transceiver module
Model Number(s):	XPWG3
Model(s) Tested:	XPWG3
Serial Number(s):	RF Conducted SN: GW95013003GG
Date of Tests:	February 27th through April 21st , 2015 (Original certification & Class II PC testing)
Test Conducted For:	Whirlpool Corporation 750 Monte Rd Benton Harbor, MI 49022, USA

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Transmitter Information:

Maximum Conducted Output Power:	25.08 dBm
Maximum Effective Isotropic Radiated Power	26.32 dBm
Frequency:	2412 MHz
Antenna Type:	F antenna
Antenna Gain:	1.24 dBi

Exposure Limit:

Maximum Permissible Exposure (MPE) limit for General Population / Uncontrolled Exposure in the frequency range 1500 – 100,000 MHz (ref: 47 CFR Part 1.1310 Table 1(b))

Limit: (S) (mW/cm ^{2}) = 1.0 mW/cm ^{2}

MPE Calculation:

Power Density (mW/cm ^{2}):

$$S = \frac{PG}{4\pi R^2}$$

S = Power Density (mW/cm ^{2})
P = Power Input to the antenna (mW)
G = Numeric Power Gain of the antenna
R = Distance to the center of the radiation of the antenna (cm)

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Results:

RF Exposure Calculation

	Input	
Frequency =	2412	MHz
P =	25.08	dBm
G =	1.24	dBi
R =	20	cm
π	3.14159	

Transmit Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Power Density (mW/cm²)	Power Density Limit (mW/cm²)	Margin
2412	25.08	322.10688	1.24	1.33045	20	0.0853	1.0	0.915

Summary of Results:

With a minimum separation distance of 20 centimeters as defined by FCC 2.1091(b), for a mobile device, the Whirlpool Inc. Wifi Gen3 model XPWG3 **meets** the RF exposure evaluation requirements for maximum permissible exposure to any radiating structure and the general population / uncontrolled exposure.

Conclusion:

The Whirlpool Inc Wifi Gen3 model XPWG3 operating under FCC part 15.247 complies with the requirements of FCC Part 1.1307(b)(1) for RF Exposure Evaluation.